



IBM Directory Portfolio.
Gaining control of enterprise identity data



Building an identity foundation for the future

Implementing an e-business model

can give companies unprecedented reach, allowing them to structure virtual enterprises and conduct business transactions on a global scale. But as online collaboration within the enterprise and between companies and their trading partners grows, so does the need for enhanced security. Key to security-rich operations is a reliable, enterprise-spanning directory infrastructure.

The IBM Directory Portfolio offers directory and metadirectory technology along with industry-leading skills, expertise and support to help your e-business initiatives succeed in today's increasingly complex environment. By providing you with a powerful and scalable foundation for deploying advanced e-business technologies, such as Web services, the IBM Directory Portfolio also positions your company for the future.

It's time to take control

The typical enterprise has more than 100 different application-specific directories across their organization, creating a situation where identity information described in different directories often gets out of sync. Inaccurate or incomplete data culled from a directory can compromise security as well as user productivity. Even if your business could sacrifice the resources to hire an endless stream of administrators to synchronize your growing number of redundant data repositories, the result would be higher overhead and no insurance against inconsistent directory content.

The fact is, traditional approaches to directory infrastructure are no longer sufficient to handle the growing volume of users, organizations and resources in an enterprise. Companies need a highly reliable and scalable identity repository, as well as an automated solution that enables data to be synchronized at an enterprise-level while allowing individual departments to manage their specific data using existing tools that maximize productivity.

IBM Directory Portfolio

The IBM Directory Portfolio, which includes IBM Directory Server and IBM Directory Integrator software, provides enterprises with a directory infrastructure that can be used to identify enterprise resources, control access to networked systems and securely deploy advanced software architectures with tools from IBM—such as IBM Tivoli® Access Manager, IBM Tivoli Identity Manager and IBM WebSphere® e-business software—or third parties.

IBM Directory Server

IBM Directory Server V4.1 is a powerful Lightweight Directory Access Protocol (LDAP) software product that serves as the foundation for deploying comprehensive identity management applications and advanced software architectures, such as Web services. Features include:

- The *reliable IBM DB2® Universal Database™ engine* to scale to tens of millions of entries and support groups of hundreds of thousands of members

■ ***“If you want to play in the Web universe, you will have to implement a metadirectory, or something like it.”***

—Dan Kuznetsky, Vice President of Systems Software Research, IDC
(Source: Brian Robinson, “Taming the directory hydra,”
February 19, 2001, Federal Computer Week.)



Business benefits at a glance

IBM Directory Server V4.1 provides a reliable, scalable identity infrastructure for deploying a wide variety of valuable enterprise solutions that benefit from a powerful repository for information, ranging from user identities and system resources to data published as a Web service. These solutions include:

- *Policy management*—Controlling access to applications and systems with tools such as Tivoli Access Manager
- *User provisioning*—Managing user identity information and provisioning applications as is done with Tivoli Identity Manager and other, third-party products
- *Authentication services*—Using personal or business profile information to create security-rich, customized portals.

IBM Directory Integrator ties together data residing in directories, databases, collaborative systems and applications to help businesses:

- *Maximize flexibility*—A dynamic synchronization layer between the enterprise identity structure and that of the applications eliminates the need for an intermediate datastore
- *Improve security*—Providing an authoritative view of directory-based identity information helps to improve the accuracy of security systems
- *Extend functionality*—An open-architecture Java development environment allows information synchronization and exchange across a variety of repositories.

■ “Seventy percent of enterprises with more than 1,000 clients will implement a metadirectory by year-end 2005.”

—Gartner, Inc.
(Source: Gartner Symposium ITXpo 2001, May 7-10, 2001.)

- *Broad platform support*—IBM AIX®, Sun Solaris, Microsoft® Windows® 2000, HP-UX, Turbolinux, and SuSE and Red Hat Linux® distributions for Intel® and IBM @server™ zSeries™
- *Compatibility* with Lotus® Domino™, IBM OS/400® and IBM z/OS™ directories
- *Advanced replication capabilities* to optimize application reliability, including peer-to-peer replication supporting dozens of master servers
- *Enhanced manageability*, including dynamic and nested groups
- *Seamless integration with IBM middleware*, including WebSphere software and Tivoli identity management and security products
- *Full LDAP V3 compliance* for a broad range of application choice.

IBM Directory Integrator

IBM Directory Integrator is a realtime engine for integrating directory and other data objects across IBM and non-IBM data stores. This open-architecture, metadirectory solution for synchronizing and exchanging information between applications or directory sources provides a consistent, enterprise-level view of your organization's directory information to help you streamline operations and deploy advanced Web services solutions. IBM Directory Integrator creates intelligent data flows called AssemblyLines based on an incremental, component-based methodology for rapid deployment and easy extension. IBM Directory Integrator includes:

- *Broad platform support* through a Java™-based architecture

- *Connectors and parsers* for connectivity to a wide range of systems; numerous protocols, access mechanisms and formats can be configured and extended to the specific enterprise environment
- *An event-driven engine* enables realtime integration with other enterprise systems
- *An exception-handling architecture* enables extensive modification of default logic and engine behavior, as well as the opportunity to introduce advanced scripts to implement totally customized—yet upgradeable—solutions
- *An integrated scripting framework* allows use of JavaScript™ and Microsoft Visual Basic® within all contexts mentioned above.

Deployed using a technology-agnostic approach, these components allow you to leverage your existing enterprise architecture but don't dictate the use of specific directories or databases. In addition to allowing you to build a traditional, centralized directory architecture, IBM Directory Integrator also enables you to build a noncentralized directory architecture, one that offers flexible, distributed deployment into large-scale enterprise environments.

IBM directory/metadirectory services

IBM offers a wide variety of customizable directory and metadirectory services that give you a direct line to professional skills and training throughout all stages of an identity infrastructure

implementation. Our industry experts help minimize your risk by assisting you with solution requirement analysis and solution design, as well as deployment of IBM enterprise directory and meta-directory technologies.

A directory vendor you can trust

With our open architecture approach and support for a wide variety of platforms, you can choose to deploy either IBM Directory Server or IBM Directory Integrator into your infrastructure, regardless of the operating system platform and application-specific directories you have in place today. This provides you with the greatest flexibility in your deployment strategy.

Whether you're securing your enterprise applications or exposing internal processes to trading partners and customers, the IBM Directory Portfolio provides the powerful, scalable and security-rich enterprise directory solution you need to gain control of your enterprise data.

For more information

For more information about the IBM Directory Portfolio, please visit:

ibm.com/software/directory



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